

ANNOTATION

Ship Boilers		ECTS credits: 5	
– 75 h			
Department:		Lecturer & Exercises:	
Ship Power Systems		Lieutenant Assist. Prof. Ph.D. Ivaylo Bakalov	
<p>Learning Objectives:</p> <p>1. The students SHOULD KNOW:</p> <ul style="list-style-type: none"> - design features of boilers, valves and components of equipment; - processes in Marine Boilers; - operation and maintenance; - how to work with Engine Room Simulator ERS 4000, Techsim 5000. <p>2. The students SHOULD BE ABLE TO:</p> <ul style="list-style-type: none"> - use theoretical fundamentals of the processes in Marine Boilers (MB); - describe features of the operation of Marine Boilers (MB); - maintain Marine Boilers (MB); - use Marine Boilers (MB) efficiently. 			
<p>Assessment System: The results of the courses are assessed with continuous assessment (CA), an abstract (A) and an examination assessment (EA).The assessment is carried out in six-point scale!</p>			
Contents:			
No.	Subject Area (modules)	Lectures	Exercises
1	Introduction. Boiler Structure. Utilisation steam boilers. Schemes Utilisation systems.	18	6
2	Mixture formation and combustion.	6	-
3	Water treatment.	12	2
4	Components.	6	7
5	Operation and maintenance of Marine Boilers (MB).	2	10
6	Certification and repair of Marine Boilers (MB). Typical malfunctions and accidents. Methods for their detection, avoidance and prevention.	-	6
Total:		44	31